

SEQUENCE LISTING

<110> DEGUSSA AG
Rieping, Mechthild
Siebelt, Nicole

<120> Process for the fermentative preparation of L-amino acids using strains of the Enterobacteriaceae family

<130> 236399US-0-X

<160> 4

<170> PatentIn version 3.1

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ttc tct gct aac gcc tcg gcc act ccc gcg tcc ggg gcg tta tta cag 96
Phe Ser Ala Asn Ala Ser Ala Thr Pro Ala Ser Gly Ala Leu Leu Gln
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cag atg aac ctg gcc agt cag tca ctg aat tac gag ctg tca ttc atc 144
Gln Met Asn Leu Ala Ser Gln Ser Leu Asn Tyr Glu Leu Ser Phe Ile
35 40 45

agc atc aat aaa cag ggt gtt gag tct ctg cgt tat cga cat gca cgc 192
Ser Ile Asn Lys Gln Gly Val Glu Ser Leu Arg Tyr Arg His Ala Arg
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ctc gat aac cgt cct ctt gca caa ttg ttg caa atg gat ggc ccg cgc 240
Leu Asp Asn Arg Pro Leu Ala Gln Leu Leu Gln Met Asp Gly Pro Arg
65 70 75 80

cgg gaa gtg gta cag cgc ggc aat gaa atc agc tat ttt gaa ccg gga 288
Arg Glu Val Val Gln Arg Gly Asn Glu Ile Ser Tyr Phe Glu Pro Gly
85 90 95

ctt gaa ccg ttc acg ctt aat ggc gat tac att gtt gat tct ctg cca 336
Leu Glu Pro Phe Thr Leu Asn Gly Asp Tyr Ile Val Asp Ser Leu Pro
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tcg ctt atc tat acc gat ttc aaa cgc ctt tct cct tac tac gac ttt 384
Ser Leu Ile Tyr Thr Asp Phe Lys Arg Leu Ser Pro Tyr Tyr Asp Phe
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cgc gtg gtt gcc cga gat ggt aca cgc tac agc tac atc gtg tgg atg 480
Arg Val Val Ala Arg Asp Gly Thr Arg Tyr Ser Tyr Ile Val Trp Met
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gac acc gaa tcg aaa tta ccg atg cggtt gat ctc ctt gat cgc gat 528
Asp Thr Glu Ser Lys Leu Pro Met Arg Val Asp Leu Leu Asp Arg Asp
165 170 175

ggt gaa acg ctg gaa caa ttt cgc gtg att gct ttt aac gtc aat cag		576	
Gly Glu Thr Leu Glu Gln Phe Arg Val Ile Ala Phe Asn Val Asn Gln			
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Asp Ile Ser Ser Ser Met Gln Thr Leu Ala Lys Ala Asn Leu Pro Pro			
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Leu Leu Ser Val Pro Val Gly Glu Lys Ala Lys Phe Ser Trp Thr Pro			
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acc tgg ttg cca cag ggt ttt agc gaa gtt tcc agt agt cga cgt ccg		720	
Thr Trp Leu Pro Gln Gly Phe Ser Glu Val Ser Ser Ser Arg Arg Pro			
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Leu Pro Thr Met Asp Asn Met Pro Ile Glu Ser Arg Leu Tyr Ser Asp			
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Gly Leu Phe Ser Phe Ser Val Asn Val Asn Arg Ala Thr Pro Ser Ser			
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Thr Asp Gln Met Leu Arg Thr Gly Arg Arg Thr Val Ser Thr Ser Val			
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Arg Asp Asn Ala Glu Ile Thr Ile Val Gly Glu Leu Pro Pro Gln Thr			
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100 105 110

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115 120 125

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130 135 140

Arg Val Val Ala Arg Asp Gly Thr Arg Tyr Ser Tyr Ile Val Trp Met
145 150 155 160

Asp Thr Glu Ser Lys Leu Pro Met Arg Val Asp Leu Leu Asp Arg Asp
165 170 175

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180 185 190

Asp Ile Ser Ser Met Gln Thr Leu Ala Lys Ala Asn Leu Pro Pro
195 200 205

Leu Leu Ser Val Pro Val Gly Glu Lys Ala Lys Phe Ser Trp Thr Pro
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Thr Trp Leu Pro Gln Gly Phe Ser Glu Val Ser Ser Ser Arg Arg Pro
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Leu Pro Thr Met Asp Asn Met Pro Ile Glu Ser Arg Leu Tyr Ser Asp
245 250 255

Gly Leu Phe Ser Phe Ser Val Asn Val Asn Arg Ala Thr Pro Ser Ser
260 265 270

Thr Asp Gln Met Leu Arg Thr Gly Arg Arg Thr Val Ser Thr Ser Val
275 280 285

Arg Asp Asn Ala Glu Ile Thr Ile Val Gly Glu Leu Pro Pro Gln Thr
290 295 300

Ala Lys Arg Ile Ala Glu Asn Ile Lys Phe Gly Ala Ala Gln
305 310 315